

## **STIC Biotechnology Systems Branch**

### **RAW SEQUENCE LISTING** **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/569,766  
Source: JFWP  
Date Processed by STIC: 03/06/2006

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

**FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:**

**<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)**
- 2. U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):**  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

## Raw Sequence Listing Error Summary

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	SERIAL NUMBER: <u>10/569,766</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 _____ Wrapped Nucleics _____ Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor <b>after</b> creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 _____ Invalid Line Length	The rules require that a line <b>not exceed</b> 72 characters in length. This includes white spaces.	
3 _____ Misaligned Amino _____ Numbering	The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do <b>not</b> use tab codes between numbers; use <b>space characters</b> , instead.	
4 _____ Non-ASCII	The submitted file was <b>not</b> saved in ASCII(DOS) text, as <b>required</b> by the Sequence Rules. <b>Please ensure your subsequent submission is saved in ASCII text.</b>	
5 _____ Variable Length	Sequence(s) _____ contain n's or Xaa's representing more than one residue. <b>Per Sequence Rules, each n or Xaa can only represent a single residue.</b> Please present the <b>maximum</b> number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 _____ PatentIn 2.0 _____ "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. <b>This applies to the mandatory &lt;220&gt;-&lt;223&gt; sections for Artificial or Unknown sequences.</b>	
7 _____ Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for <b>each</b> skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to <b>include</b> the skipped sequences.	
8 _____ Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If <b>intentional</b> , please insert the following lines for <b>each</b> skipped sequence. <210> sequence id number <400> sequence id number 000	
9 _____ Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is <b>MANDATORY</b> if n's or Xaa's are present. In <220> to <223> section, please explain location of <b>n</b> or <b>Xaa</b> , and which residue <b>n</b> or <b>Xaa</b> represents.	
10 _____ Invalid <213> _____ Response	Per 1.823 of Sequence Rules, the only <b>valid</b> <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is <b>required</b> when <213> response is Unknown or is Artificial Sequence. (see item 11 below)	
11 <del>_____ Use of &lt;220&gt;</del>	<del>Sequence(s) _____ missing the &lt;220&gt; "Feature" and associated numeric identifiers and responses. Use of &lt;220&gt; to &lt;223&gt; is MANDATORY if &lt;213&gt; "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in &lt;220&gt; to &lt;223&gt; section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules.</del>	
12 _____ PatentIn 2.0 _____ "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 _____ Misuse of n/Xaa	<b>"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid</b>	



IFWP

## RAW SEQUENCE LISTING

DATE: 03/06/2006

PATENT APPLICATION: US/10/569,766

TIME: 13:35:24

Input Set : A:\GENOM.032NP.TXT

Output Set: N:\CRF4\03062006\J569766.raw

4 <110> APPLICANT: Crothers, Donald M.  
 6 <120> TITLE OF INVENTION: OLIGONUCLEOTIDE SEQUESTERING AGENTS AND  
 7 METHODS OF USE  
 9 <130> FILE REFERENCE: GENOM.032NP  
 -> 11 <140> CURRENT APPLICATION NUMBER: US/10/569,766  
 -> 11 <141> CURRENT FILING DATE: 2006-02-23  
 11 <150> PRIOR APPLICATION NUMBER: PCT/US2004/027412  
 12 <151> PRIOR FILING DATE: 2004-08-23  
 14 <150> PRIOR APPLICATION NUMBER: 60/497,821  
 15 <151> PRIOR FILING DATE: 2003-08-25  
 17 <160> NUMBER OF SEQ ID NOS: 26  
 19 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 21 <210> SEQ ID NO: 1  
 22 <211> LENGTH: 54  
 23 <212> TYPE: DNA  
 24 <213> ORGANISM: Homo sapiens  
 26 <400> SEQUENCE: 1  
 27 tctgtaagag cagatccctg gacaggcaag gaatacagag ggcagcagac atcg  
 29 <210> SEQ ID NO: 2  
 30 <211> LENGTH: 27  
 31 <212> TYPE: DNA  
 32 <213> ORGANISM: Artificial Sequence  
 34 <220> FEATURE:  
 35 <223> OTHER INFORMATION: First complementary nucleic acid  
 37 <400> SEQUENCE: 2  
 38 gcctgtccag g gatctgctc ttacaga  
 40 <210> SEQ ID NO: 3  
 41 <211> LENGTH: 22  
 42 <212> TYPE: DNA  
 43 <213> ORGANISM: Artificial Sequence  
 45 <220> FEATURE:  
 46 <223> OTHER INFORMATION: Second complementary nucleic acid  
 48 <400> SEQUENCE: 3  
 49 ggacaaaata cctgtattcc tt  
 51 <210> SEQ ID NO: 4  
 52 <211> LENGTH: 41  
 53 <212> TYPE: DNA  
 54 <213> ORGANISM: Artificial Sequence  
 56 <220> FEATURE:  
 57 <223> OTHER INFORMATION: n=dideoxyG  
 59 <220> FEATURE:  
 60 <223> OTHER INFORMATION: Sequestering agent  
 62 <400> SEQUENCE: 4

CP8-6)  
 Does Not Comply  
 Corrected Diskette Needed  
 CP5 1, 2, 3, 4, 5

Invalid Response. What is the  
 Source of genetic  
 Material. PLS See  
 Item 11 on Error  
 Summary  
 Sheet

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Input Set : A:\GENOM.032NP.TXT

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-> 63 gatccctgga caggccggaa gcggcttttt tgccgcttcc n 41  
 65 <210> SEQ ID NO: 5  
 66 <211> LENGTH: 41  
 67 <212> TYPE: DNA  
 68 <213> ORGANISM: Artificial Sequence  
 70 <220> FEATURE:  
 71 <223> OTHER INFORMATION: Sequestering agent  
 73 <400> SEQUENCE: 5  
 74 gtgccgagac gttttttcgt ctccggcacta ggaatacagg t 41  
 76 <210> SEQ ID NO: 6  
 77 <211> LENGTH: 26  
 78 <212> TYPE: DNA  
 79 <213> ORGANISM: Artificial Sequence  
 81 <220> FEATURE:  
 82 <223> OTHER INFORMATION: First complementary nucleic acid  
 84 <400> SEQUENCE: 6 26  
 85 ctcccgcaga caccttctcc ttcaag  
 87 <210> SEQ ID NO: 7  
 88 <211> LENGTH: 15  
 89 <212> TYPE: DNA  
 90 <213> ORGANISM: Artificial Sequence  
 92 <220> FEATURE:  
 93 <223> OTHER INFORMATION: Second complementary nucleic acid  
 95 <400> SEQUENCE: 7 15  
 96 tgatgatgaa atcgg  
 98 <210> SEQ ID NO: 8  
 99 <211> LENGTH: 15  
 100 <212> TYPE: DNA  
 101 <213> ORGANISM: Artificial Sequence  
 103 <220> FEATURE:  
 104 <223> OTHER INFORMATION: Third complementary nucleic acid  
 106 <400> SEQUENCE: 8 15  
 107 tgatgatgaa atcga  
 109 <210> SEQ ID NO: 9  
 110 <211> LENGTH: 39  
 111 <212> TYPE: DNA  
 112 <213> ORGANISM: Artificial Sequence  
 114 <220> FEATURE:  
 115 <223> OTHER INFORMATION: n=dideoxyG  
 117 <220> FEATURE:  
 118 <223> OTHER INFORMATION: First sequestering agent  
 120 <400> SEQUENCE: 9  
 -> 121 ggtgtctgcg ggagcggaag cggctttttg ccgcttccn 39  
 123 <210> SEQ ID NO: 10  
 124 <211> LENGTH: 37  
 125 <212> TYPE: DNA  
 126 <213> ORGANISM: Artificial Sequence  
 128 <220> FEATURE:  
 129 <223> OTHER INFORMATION: Second sequestering agent

Same even

## RAW SEQUENCE LISTING

DATE: 03/06/2006

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TIME: 13:35:24

Input Set : A:\GENOM.032NP.TXT

Output Set: N:\CRF4\03062006\J569766.raw

131 <400> SEQUENCE: 10  
132 gctgcaccgc ttttttgccg tgcaccgat ttcacatca 37  
134 <210> SEQ ID NO: 11  
135 <211> LENGTH: 37  
136 <212> TYPE: DNA  
137 <213> ORGANISM: Artificial Sequence  
139 <220> FEATURE:  
140 <223> OTHER INFORMATION: Third sequestering agent  
142 <400> SEQUENCE: 11  
143 gctgcaccgc ttttttgccg tgcactcgat ttcacatca 37  
145 <210> SEQ ID NO: 12  
146 <211> LENGTH: 96  
147 <212> TYPE: DNA  
148 <213> ORGANISM: Artificial Sequence  
150 <220> FEATURE:  
151 <223> OTHER INFORMATION: RC probe  
153 <400> SEQUENCE: 12  
154 gcacctcaaaa gctgttccgt cccagttgac taccctcagt gaattctagc tactggcaat 60  
155 ctgatcccta tagtgagtcg tattacaggc acaaac 96  
157 <210> SEQ ID NO: 13  
158 <211> LENGTH: 15  
159 <212> TYPE: DNA  
160 <213> ORGANISM: Artificial Sequence  
162 <220> FEATURE:  
163 <223> OTHER INFORMATION: Z tag  
165 <400> SEQUENCE: 13  
166 agctactggc aatct 15  
168 <210> SEQ ID NO: 14  
169 <211> LENGTH: 20  
170 <212> TYPE: DNA  
171 <213> ORGANISM: Artificial Sequence  
173 <220> FEATURE:  
174 <223> OTHER INFORMATION: T7 promoter  
176 <400> SEQUENCE: 14  
177 ccctatagtg agtcgtatta 20  
179 <210> SEQ ID NO: 15  
180 <211> LENGTH: 6  
181 <212> TYPE: DNA  
182 <213> ORGANISM: Artificial Sequence  
184 <220> FEATURE:  
185 <223> OTHER INFORMATION: Eco RI site  
187 <400> SEQUENCE: 15  
188 gaattc 6  
190 <210> SEQ ID NO: 16  
191 <211> LENGTH: 3  
192 <212> TYPE: DNA  
193 <213> ORGANISM: Artificial Sequence  
195 <220> FEATURE:  
196 <223> OTHER INFORMATION: 3' nucleotide gap

Same  
error



## RAW SEQUENCE LISTING

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Input Set : A:\GENOM.032NP.TXT

Output Set: N:\CRF4\03062006\J569766.raw

264 <213> ORGANISM: Artificial Sequence  
266 <220> FEATURE:  
267 <223> OTHER INFORMATION: n=dideoxyG  
269 <220> FEATURE:  
270 <223> OTHER INFORMATION: Sequestering agent  
272 <400> SEQUENCE: 23  
-> 273 cctggacagg ccggaagcgg cttttttgcc gcttccn 37  
275 <210> SEQ ID NO: 24  
276 <211> LENGTH: 25  
277 <212> TYPE: DNA  
278 <213> ORGANISM: Homo sapiens  
280 <400> SEQUENCE: 24  
281 aaggaataca ggtattttgt ccttg 25  
283 <210> SEQ ID NO: 25  
284 <211> LENGTH: 25  
285 <212> TYPE: DNA  
286 <213> ORGANISM: Artificial Sequence  
288 <220> FEATURE:  
289 <223> OTHER INFORMATION: Tag probe  
291 <400> SEQUENCE: 25  
292 caaggacaaa atacctgtat tcctt 25  
294 <210> SEQ ID NO: 26  
295 <211> LENGTH: 40  
296 <212> TYPE: DNA  
297 <213> ORGANISM: Artificial Sequence  
299 <220> FEATURE:  
300 <223> OTHER INFORMATION: Sequestering agent  
302 <400> SEQUENCE: 26  
303 gtgccgagac gttttttcgt ctcggcaciaa ggaatacagg 40

-? Same Error

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/569,766

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Base Note:

Presence of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> <223> fields of each sequence which presents at least one n or Xaa.

Seq#:4; N Pos. 41

Seq#:9; N Pos. 39

Seq#:23; N Pos. 37



## VARIABLE LOCATION SUMMARY

DATE: 03/06/2006

PATENT APPLICATION: US/10/569,766

TIME: 13:35:25

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Output Set: N:\CRF4\03062006\J569766.raw

Presence of n's or Xaa's (NEW RULES):

Presence of n's and/or Xaa's have been detected in the Sequence Listing.

Presence of &lt;220&gt; to &lt;223&gt; is MANDATORY if n's or Xaa's are present.

&lt;220&gt; to &lt;223&gt; section, please explain location of n or Xaa, and which residue n or Xaa represents.

I#:4; N Pos. 41

I#:9; N Pos. 39

I#:23; N Pos. 37

**VERIFICATION SUMMARY**

DATE: 03/06/2006

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Input Set : A:\GENOM.032NP.TXT

Output Set: N:\CRF4\03062006\J569766.raw

11 M:270 C: Current Application Number differs, Replaced Current Application No  
11 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
53 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:4  
53 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:4  
53 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
121 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:9  
121 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:9  
121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
273 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:23  
273 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:23  
273 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0